

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-036640  
 (43)Date of publication of application : 06.02.1996

(51)Int.Cl.

G06T 5/00  
 G06T 7/00

(21)Application number : 06-172333

(71)Applicant : NIPPON TELEGR &amp; TELEPH CORP &lt;NTT&gt;

(22)Date of filing : 25.07.1994

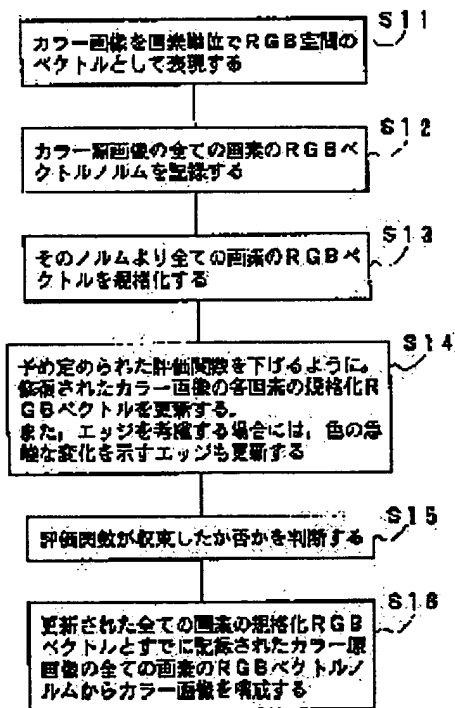
(72)Inventor : MIZUTANI SHIN  
 SAKAINO HIDETOMO  
 HONGO SETSUYUKI  
 SONEHARA NOBORU

## (54) COLOR IMAGE PROCESSING METHOD

(57)Abstract:

PURPOSE: To correct only a color so that a change in a color of an object is natural without much change in the luminance distribution of the entire image from that of an original image by expressing the color image as a vector in an RGB space in the unit of picture elements and taking only an angle of a normalized image RGB vector into account.

CONSTITUTION: A color image is expressed as a vector in an RGB space in the unit of picture element, a norm of the RGB vector of a color original image is calculated and recorded (S11, S12). Then the norm is used to normalize the RGB vectors of all picture elements. The normalized RGB vector of each picture element of the corrected color image is updated so as to decrease its evaluation function (S13, S14). After the convergence of the evaluation function is confirmed, the corrected color image is formed based on the updated normalized RGB vectors of all the picture elements and the RGB vector norm of all the picture elements of the color original image already recorded.



## LEGAL STATUS

[Date of request for examination]

25.10.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office